

## CONGRATULATIONS.

You have just purchased the finest phaser made. Your Morley Pro Phaser is designed for years of trouble-free operation. To insure your satisfaction, please take a few moments to read this booklet. Acquaint yourself with some of the parts that may be new to you. Above all, we hope you enjoy using the pedal as much as we enjoyed making it for you.

### GENERAL INFORMATION

The Morley Pro Phaser is AC powered and photo-electric cell operated. There are no rack and pinion gears, nor is there a potentiometer coupled to the treadle, as in most other pedals. The indicator light must be functional for the Pro Phaser to work. The light will vary in intensity indicating the rate and depth of the phasing effect.

### PRINCIPLE OF OPERATION

The Morley Pro Phaser contains a circuit that moves the signal back and forth (in time) from a fraction of a cycle per second to several cycles per second depending on the "Phase Travel" knob setting. An oscillator moves it at a controlled speed, depending on the treadle position, from once every 10 seconds to 10 times a second. The delayed sound is then mixed with the original, unmodified sound. The result causes the various tones to change step, or phase, with each other. These additions and cancellations occur at different points in time for each note. Phasing can change an ordinary note into a very interesting sound, rich with harmonic structure change- within the note itself. The more complex the musical sound, the more effective the phasing becomes.

### A NOTE TO MUSICIANS

If you are accustomed to using a Wah pedal, you should not experience any difficulty in operating the Pro Phaser in the "Foot" position. Keep in mind however, that it is not a Wah, and the phasing effect is best achieved by slow, continuous sweeps rather than vigorous pumping. When the treadle is stopped (in any position), the phasing stops. Phasing is a function of time, so the treadle must be kept moving. There will be some tone change, depending on treadle position, but only relative to the settings on the side knobs.

## OPERATING INSTRUCTIONS

1. Plug into correct AC source.
2. Connect a musical instrument to the Pro Phaser by plugging one end of a shielded cable to the instrument, and the other end into the pedal jack labeled "Instrument".
3. Connect the pedal to the amplifier by plugging one end of a shielded cable into the amplifier input and the other end into the pedal jack labeled "Amplifier".
4. Set the controls on your musical instrument and amplifier to their customary settings. Turn amplifier power on.
5. Turn Pro Phaser power on with AC Toggle switch.
6. To start with, set "Center" control at 12 o'clock. Set "Phase Travel" and "Harmonic Emphasis" controls at 3 o'clock. Vary controls to suit your requirements.  
Note: The "Phase Travel" knob can reduce the phase travel to zero in the completely counter clockwise position.
7. When phasing is not required depress "Phaser" switch to return sound to normal.

## CONTROL FUNCTIONS

All controls go from minimum to maximum in a clockwise direction:

1. Phase Travel: This determines the amount or degree of phasing.
2. Harmonic Emphasis: This control does what its name indicates. Increasing the amount adds additional coloration to the sound. In its maximum position it also generates distortion which can be useful for certain effects.
3. Center: The center knob controls where the phased signal is located, time wise, relative to the original signal.
4. Treadle: The phasing can be controlled by the foot. When the selector switch is placed in the "Foot" position, the oscillator circuit is inoperative. The musician may then control the phasing effect and rate with the treadle in much the same way that a Wah Wah pedal is used. In the "Auto" position, the treadle controls the speed of the phasing.